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Question Paper Code: 51207

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2019

First Semester

Computer Science Engineering

15UCS107 - COMPUTER PROGRAMMING

(Regulation 2015)

Duration: Three hours Maximum: 100 Marks

Answer All Questions

PART A - (10x 1 = 10 Marks)

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1.	Algorithm and Flow c	hart help us to	<u> </u>		CO1- R
	(a) Know the memory	capacity	(c) Direct the output to a	a printer	
	(b) Identify the base o	f a number system	(d) Specify the problem	completely a	and clearly
2.	Which of the followin	g is not an advantage	e of a flowchart?		CO1- R
	(a) Better Communica	tion	(c) Systematic testing		
	(b) Efficient Coding		(d) Improper documen	tation	
3.	Which of the followin	g special symbol allo	owed in a variable name?		CO2- R
	(a) * (asterisk)		(c) - (hyphen)		
	(b) (pipeline)		(d) _(underscore)		
4.	Out of fgets() and gets() which function is safe to use?				
	(a) gets()	(b) fgets()	(c) both (a) and (b)	(d) None	
5.	What will be the data type of the expression $(a < 50)$? var1 : var2; provided a = int, var1 = double, var2 = float				
	(a) int	(b) float	(c) double	(d) char	
6.	The keyword 'break' cannot be simply used within:				
	(a) do-while	(b) if-else	(c) switch-case	(d) for	

7.	If the two strings are identical, then strcmp() function returns						
	(a) -	1	(b) 1	(c) 0	d) Yes		
8.	In C	, static storage cla	ss cannot be use	ed with:		CO4- R	
	(a) (Global variable		(b) Function parameter			
	(c) I	Function name		(d) Local variable			
9.	If a l		a1, what will be	the output generated by the expr	ession	CO5- R	
	(a) A	Address of a2		(b) Address of a1			
	(c) \	Value of x		(d) Address of x			
10.	Whi	ch of the following	g are themselves	s a collection of different data typ	es?	CO5- R	
	(a) S	String		(b) Structures			
	(c) (Char		(d) Array			
			PART –	B (5 x 2= 10Marks)			
11.	Wha	at are the language	s used in compu	iter generations.		CO1- U	
12.	. List out some of the rules used for 'C' programming.						
13.	. What is the difference between if and while statement?						
14.	. Define Strings with example.						
15.	. What is NULL pointer?						
			PART	– C (5 x 16= 80Marks)			
16.	(a)		code structur	example and briefly discuss the res. Differentiate algorithm and		(16)	
	(b)	(i) Mention the va		es to be followed while drawing a	CO1 -U	(8)	
	` /		ith a suitable ex	· · · · · · · · · · · · · · · · · · ·		· /	
		(ii) Draw the flow	vehart to find the	e greatest among three numbers.	CO1 -Ap	p (8)	
17.	(a)	Explain in detail	-	s in C with suitable example Or	CO2 -U	(16)	
	(b)	Describe about a example.	managing Input	t and Output operations with a	n CO2 -U	(16)	

18.	(a)	The Fibonacci sequence is a set of numbers that starts with a one or a zero, followed by a one, and proceeds based on the rule that each number is equal to the sum of the preceding two numbers. First few numbers of series are 0, 1, 1, 2, 3, 5, 8 etc., Create a C program to develop Fibonacci series	CO3- U	(16)
	(b)	Or (i) With an example explain the Branching and Looping mechanism in C.	CO3- App	(8)
		(ii) Write a menu driven program which has following options: (i) Factorial of a number (ii) Prime or not (iii) Odd or even (iv) Exit.	CO3- App	(8)
19.	(a)	Interpret about call by value and call by reference with suitable example	CO4-App	(16)
	(b)	Or (i) Write a C program to read n numbers in an array and split the array into two arrays even and odd such that the array even contains all the even numbers and other is odd. So the output will be as follows: Original array is 7,9,4,6,5,3,2,10,18 Odd array is 7,9,5,3 Even array is 4,6,2,10,18	CO4 -App	(8)
		(ii) Define functions. Write the advantages and disadvantages of function in C.	CO4 -U	(8)
20.	(a)	Paraphrase the concept of Dynamic memory allocation with its advantages and disadvantages Or	CO5- U	(16)
	(b)	Describe pointers? When and why they are used? Explain in detailwith sample programs.	CO5- U	(16)